M. Craig Barber, Research Ecologist, in EPA's National Exposure Research Laboratory

Systems Exposure Division
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Area of Expertise: I developed the Bioaccumulation and Aquatic System Simulator (BASS) which simulates chemical bioaccumulation and growth of individual fish, as well as population dynamics of age-structured fish communities. As part of the National Exposure Research Laboratory's Aquatic Ecosystem Assessment Team, I expanded BASS's original focus from evaluating the potential impacts of fishery management practices and habitat alteration on Mid-Atlantic Highlands (MAH) stream fishes by incorporating algorithms for fishery stocking and harvest, and for habitat-dependent dispersal and non-predatory mortality.

Select Publications:

BARBER, M. C., B. RASHLEIGH, AND M. J. CYTERSKI. Forecasting fish biomasses, densities, productions, and bioaccumulation potentials of Mid-Atlantic wadeable streams. Integrated Environmental Assessment and Management. Allen Press, Inc., Lawrence, KS, 12(1):146-159, (2016).

Johnston, JohnM, Craig Barber, K. Wolfe, M. Galvin, Mike Cyterski, AND R. Parmar. A Watershed-based spatially-explicit demonstration of an Integrated Environmental Modeling Framework for Ecosystem Services in the Coal River Basin (WV, USA). Presented at Fifth Interagency Conference on Research in the Watersheds, Charleston, SC, March 02 - 06, 2015.

Barber, M C. BIOACCUMULATION AND AQUATIC SYSTEM SIMULATOR (BASS) USER'S MANUAL BETA TEST VERSION 2.1. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-01/035 (NTIS PB2001-108558), 2001.

View more research publications by Craig Barber.

Education:

- Ph.D. Ecology, University of Georgia, 1983
- B.S. Biology, Northern Arizona University, 1974

Professional Experience:

- Research Ecologist, USEPA, ORD, NERL-ERD, Athens, GA 1985–present.